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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,420	11/26/2003	Katsuhiko Hoya	245908US2S	6594	
22850	7590 10/04/2004		EXAMINER		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			HOANG, HUAN		
1940 DUKE STREET ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
¥-1	,		2818		
			DATE MAILED: 10/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

			- 40V			
	Application No.	Applicant(s)				
	10/721,420	HOYA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Huan Hoang	2818				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by statution and the provided by the Office later than three months after the mail are reply received by the Office later than three months after the mail are reply will term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be bely within the statutory minimum of thirty (30) d will apply and will expire SIX (6) MONTHS (ute, cause the application to become ABANDO	e timely filed days will be considered timely. from the mailing date of this communic DNED (35 U.S.C. § 133).	cation.			
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under	·	•	ts is			
Disposition of Claims						
4) ☐ Claim(s) 1-13 is/are pending in the application 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-13 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	ner.					
	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the	• ,	, ,				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	• • • • • • • • • • • • • • • • • • • •	•	` '			
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applic iority documents have been rece eau (PCT Rule 17.2(a)).	cation No eived in this National Stage	Э			
Attachment(s)						
1) Motice of References Cited (PTO-892) 2) D Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summ Paper No(s)/Ma					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date <u>112603</u> .		al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this
 Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2 and 4-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Takeuchi et al. (US Patent No. 6,366,490 cited by Applicant).

Takeuchi et al. discloses a semiconductor integrated circuit device having all the elements as recited in claims 1, 2 and 4-7 as follows:

- unit cells each including a cell transistor and a ferroelectric capacitor
 connected between a source and a drain of the cell transistor;
- memory cell blocks (4 blocks in Fig. 4) each including the unit cells connected in series between a first terminal and a second terminal and a block select transistor connected between the second terminal and a third terminal;
- bit lines each of which connects commonly the third terminals of the memory cell blocks (BL0 connecting the third terminals of the two

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upper blocks and BBL0 connecting the third terminals of the two lower blocks);

- word lines (WL0-WL7);
- block select signal lines (BS0, BS1, BS2, BS3);
- plate lines (PL0 and BPL0);
- plate line driver (PDs, Fig. 4);
- the memory cells blocks connecting to each of the plate lines connected to the first and second driver circuits are connected to different word lines and different block select signal lines (the memory cells of the two upper blocks have different word lines (WL0-WL15) and different block select lines BS) and BS2, Figs. 4 and 5).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 and 8-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi et al..

The only difference between claims 3 and 8-10 is the use of a second row decoder and a second column decoder. However, the use of a plurality of row and column decoders in a memory device having a plurality of blocks is well-

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known in the art to provide select signals to the word lines and the bit lines. It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a plurality of row and column decoders in order to provide select signals to a memory cell in a memory device.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takashima discloses a nonvolatile semiconductor memory device having ferroelectric capacitors.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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HH 9/30/04.